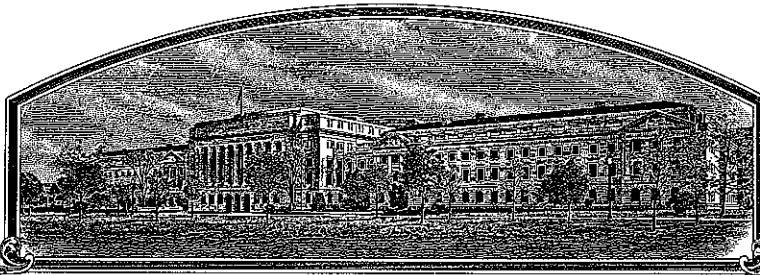


No.

200500350



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Louisiana State University Agricultural Center

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

RICE

'Trenasse'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this fifth day of June, in the year two thousand and six.

Attest:

Blm Zahn

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

W. L. Johnson

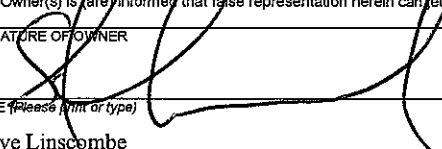
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER Louisiana State University Agricultural Center		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME LA0202008	3. VARIETY NAME Trenasse
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) Rice Research Station 1373 Caffey Road Rayne, LA 70578		5. TELEPHONE (include area code) (337) 788-7531	FOR OFFICIAL USE ONLY PVPO NUMBER 200500350 FILING DATE September 21, 2005
		6. FAX (include area code) (337) 788-7553	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Public University	8. IF INCORPORATED, GIVE STATE OF INCORPORATION	9. DATE OF INCORPORATION	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Steve Linscombe Rice Research Station 1373 Caffey Road Rayne, LA 70578			FILING AND EXAMINATION FEES: \$ 3,652 - DATE Sept 21, 05 CERTIFICATION FEE: \$ 768 - DATE May 1, 06
11. TELEPHONE (include area code) (337) 788-7531	12. FAX (include area code) (337) 788-7553	13. E-MAIL slinscombe@agcenter.lsu.edu	
14. CROP KIND (Common Name) Rice	16. FAMILY NAME (Botanical) Poaceae	18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
15. GENUS AND SPECIES NAME OF CROP Oryza sativa	17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (If "yes", answer items 21 and 22 below) <input checked="" type="checkbox"/> NO (If "no", go to item 23)	
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)		21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)	
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO RAO 31162006 IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)	
25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF OWNER 		SIGNATURE OF OWNER Steve Linscombe	
NAME (Please print or type) Steve Linscombe		NAME (Please print or type) Steve Linscombe	
CAPACITY OR TITLE Professor	DATE 08/25/2005	CAPACITY OR TITLE Professor	DATE 08/25/2005

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be **received** in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to **reproduce** the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 <http://www.ams.usda.gov/lsg/seed.htm>.

ITEM

- 19a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) evidence of uniformity and stability; and (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
20. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Foundation seed sold - February 1, 2005 -- USA

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

Utility Patent application filed September 21, 2005. Serial number 11/232,493.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

EXHIBIT A**Origin and Breeding History**

Development History of Trenasse Pedigree: Cypress//L-202/Tebonnet/3/Labelle-SC-5		
Year	Generation	ID
1996	F ₀ Cross	96CR020
1997	F ₁	97T020
1998	F ₂	98F7039
1999	F ₃	9925407
2000	F ₄	0016184
2001	F ₅	0102619 (Preliminary Yield)
2002	F ₆	0202008 (Uniform Regional Nursery – Commercial Advanced)
2003	F ₇	Headrow Increase
2003	F ₈	Headrow Increase- Puerto Rico
2004	F ₉	Breeder – Foundation Seed
2005	F ₁₀	Foundation seed planted by commercial seed producers

Details of stages of selection and multiplication: Trenasse was developed from a modified program of single seed descent. From the original cross made in 1996, four F₁ plants were grown in 1997. The seed from these F₁ plants were bulked and used to plant a large F₂ population in 1998. One panicle was selected from each of 200 F₂ plants and these were grown as F₃ panicle rows in 1999. Row number 9925407 was selected for advancement. Five panicles were selected from this row and were planted as F₄ panicle rows in 2000. Row 0016184 was selected for advancement. Ten panicles were selected from this row and the remaining seed was bulked. The bulked seed was used for yield testing in 2001 while the 10 panicles were planted as F₅ panicle rows. The material was reselected and advanced in 2002 (F₆) and 2003 (F₇) as panicle rows selected from the preceding panicle row blocks. An 800-panicle row increase was grown at the Puerto Rico winter nursery [planted October 2003 (F₈) and harvested February 2004]. This seed was used to produce breeder foundation seed on the Rice Research Station in 2004 (F₉). This is the seed that was released to seed growers in 2005.

Trenasse has been observed for six generations of increase and multiplication and has exhibited a very high level of uniformity and stability.

Trenasse was originally selected in the F₄ generation as a short-stature, very early line that displayed good yield potential and grain characteristics. It displayed excellent yield potential and good quality characteristics through yield testing for several years. Yield, milling, and agronomic data are attached from multiple environments.

In each generation of multiplication and purification (F₅ – F₉), the line was selected for uniformity and purity.

Variants observed and removed from increase fields of Trenasse included any combination of the following: taller, shorter, pubescent, later, intermediate or medium grain, and gold hull. The total number of variants numbered fewer than 1 per 5,000 plants.

Exhibit B**Statement of Distinctness**

Trenasse is a very high yielding, very early long-grain rice variety. It was derived from the cross Cypress//L202//Tebonnet/3//Labelle SC-5 made at the Rice Research Station in 1996. The variety averages 74 days from emergence to 50% heading, compared with 80, 82, and 83 for Cocodrie, Cheniere, and Cypress, respectively. Plant height averages 102 cm for Trenasse compared with 94, 97, and 97 for Cocodrie, Cheniere, and Cypress, respectively. Trenasse has shown adaptation throughout the southern United States rice producing regions.

Trenasse most closely resembles the rice variety Cocodrie. It is, however, 6 days earlier in maturity and 8 cm taller in plant height. Trenasse also has an acute licule shape while that of Cocodrie is 2-cleft. In addition, Trenasse has an intermediate flag leaf angle after heading while that of Cocodrie is erect.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY
Rice (*Oryza sativa*)

NAME OF APPLICANT (S) Louisiana State University Agricultural Center	TEMPORARY OR EXPERIMENTAL DESIGNATION LA0202008	VARIETY NAME Trenasse
ADDRESS (Street and No. or RD No., City, State, and Zip Code, Country) Rice Research Station 1373 Caffey Road Rayne, LA 70578		FOR OFFICIAL USE ONLY PVPO NUMBER 2005 00350

PLEASE READ ALL INSTRUCTIONS CAREFULLY:

Place the appropriate number that describes the character of this variety in the spaces provided below. These numbers are also code numbers corresponding to descriptors developed by IBGR-IRRI Rice Advisory Committee and the US Rice Crop Advisory Committee. Breeders will demonstrate distinctness more readily by describing as many characters as is possible.

1. MATURITY: Days to Heading (Seedling to 50% Heading)

A. South: (Location: **Louisiana, Crowley**) at **165** kg/ha (Nitrogen Rate)

74 Number of Days

6 Days Earlier Than Check Variety: **Cocodrie**

____ Days Same As Check Variety: _____

____ Days Later Than Check Variety: _____

1 Maturity Class 1 = Very Early (85 Days or Less) 2 = Early (86 - 100)
3 = Intermediate (101 - 115) 4 = Late (More Than 115)

B. California: (Location: _____) at _____ kg/ha (Nitrogen Rate)

____ Number of Days

____ Days Earlier Than Check Variety: _____

____ Days Same As Check Variety: _____

____ Days Later Than Check Variety: _____

____ Maturity Class 1 = Very Early (90 Days or Less) 2 = Early (91 - 97)
3 = Intermediate (98 - 104) 4 = Late (More Than 104)

2. CULM:

1 Angle (Degrees from Perpendicular after Flowering):

1 = Erect (Less than 30°) 3 = Intermediate (About 45°) 5 = Open (About 60°)

7 = Spreading (More than 60° but the culms do not rest on the ground)

9 = Procumbent (The culm or its lower part rests on the ground surface)

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200500350

6. GRAIN (Spikelet):0 Lemma and Palea Color (At Maturity):

0 = Straw	1 = Gold and/or Gold Furrows on Straw Background	2 = Brown Spots on Straw (Piebald)
3 = Brown Furrows on Straw	4 = Brown (Tawny)	5 = Reddish to Light Purple
6 = Purple Spots on Straw	7 = Purple Furrows on Straw	8 = Purple
9 = Black	10 = White	

1 Lemma and Palea Pubescence:

1 = Glabrous	2 = Hairs on Lemma Keel	3 = Hairs on Upper Portion
4 = Short Hairs	5 = Long Hairs (Velvety)	

1 Spikelet Sterility (At Maturity):

1 = Highly Fertile (> 90%)	3 = Fertile (75 – 90%)	5 = Partly Sterile (50 – 74%)
7 = Highly Sterile (< 50% to Trace)	9 = Completely Sterile (0%)	

7. GRAIN (Seed):2 Seed Coat (Bran) Color:

1 = White	2 = Light Brown	3 = Speckled Brown	4 = Brown
5 = Red	6 = Variable Purple	7 = Purple	

1 Endosperm Type:

1 = Nonglutinous (Nonwaxy)	2 = Glutinous (Waxy)	3 = Indeterminate
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1 Endosperm Translucency:

1 = Clear	5 = Intermediate	9 = Opaque
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1 Endosperm Chalkiness:

0 = None	1 = Small (Less than 10% of Sample)
5 = Medium (10 – 20% of Sample)	9 = Large (More than 20% of Sample)

0 Scent (Aroma):

0 = Nonscented	1 = Lightly Scented	2 = Scented
----------------	---------------------	-------------

Shape Class (Length/Width Ratio):

3 Paddy

1 = Short (2.2:1 and Less)	2 = Medium (2.3:1 to 3.3:1)	3 = Long (3.4:1 and More)
----------------------------	-----------------------------	---------------------------

3 Brown

1 = Short (2.0:1 and Less)	2 = Medium (2.1:1 to 3.0:1)	3 = Long (3.1:1 and More)
----------------------------	-----------------------------	---------------------------

3 Milled

1 = Short (1.9:1 and Less)	2 = Medium (2.0:1 to 2.9:1)	3 = Long (3.0:1 and More)
----------------------------	-----------------------------	---------------------------

Measurements:

Grain Form	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1000 Grains (grams)
Paddy	<u>9.30</u>	<u>2.67</u>	<u>2.02</u>	<u>3.50</u>	<u>25.05</u>
Brown	<u>7.19</u>	<u>2.32</u>	<u>1.73</u>	<u>3.11</u>	<u>20.65</u>
Milled	<u>6.70</u>	<u>2.23</u>	<u>1.67</u>	<u>3.01</u>	<u>19.00</u>

19 Milling Quality (% Hulls)62.8 Milling Yield (% White Kernel (head) Rice to Rough Rice)7.07 % Protein20.9 % Amylose

Alkali Spreading Value:

 1.5% KOH Solution4.1 1.7% KOH Solution5 Gelatination Temperature Type:

1 = High	5 = Intermediate	7 = Low
----------	------------------	---------

Amylographic Paste Viscosity (Brabender Units)

Peak	Hot Paste	Cooled Paste	'Breakdown' 'Setback'
<u>278.5</u>	<u>145.8</u>	<u>281.1</u>	<u>132.7</u>

8. RESISTANCE TO LOW TEMPERATURE:2 Germination and Seedling Vigor:

1 = Low	2 = Medium	3 = High
---------	------------	----------

2 Flowering (Spikelet Fertility):

1 = Low	2 = Medium	3 = High
---------	------------	----------

9. SEEDLING VIGOR NOT RELATED TO LOW TEMPERATURE:2 Vigor:

1 = Low	2 = Medium	3 = High
---------	------------	----------

7

10. BLAST RESISTANCE: (*Pyricularia oryzae*). (International races found under References)

	0 = Immune		1 = Resistant		3 = Moderately Resistant		5 = Intermediate		7 = Moderately Susceptible		9 = Susceptible	
Group	IB		IC		ID		IE		IG		IH	
Number	1	5	45	49	54	1	17	1	13	1	1	1
Resistance	--	--	--	7	--	--	7	--	--	--	--	--

11. RESISTANCE TO OTHER DISEASES:

0 = Immune 1 = Resistant 3 = Moderately Resistant 5 = Intermediate 7 = Moderately Susceptible 9 = Susceptible

- | | |
|--|---|
| <u>5</u> Narrow Brown Leaf Spot (<i>Cerospora oryzae</i>) | <u>--</u> Aggregate Sheath Spot (<i>Rhizoctonia Oryzae-sativae</i>) |
| <u>3</u> Leaf Smut (<i>Entyloma oryzae</i>) | <u>3</u> Straight Head |
| <u>3</u> Brown Leaf Spot (<i>Helminthosporium oryzae</i>)
(= <i>Bipolaris oryzae</i>)
(= <i>Drechslera oryzae</i>) | <u>--</u> Kernel Smut (<i>Neovossia horrida</i>)
(= <i>Tilletia barclayana</i>) |
| <u>--</u> Leaf Scald (<i>Gerlachia oryzae</i>) | <u>--</u> White Tip Nematode (<i>Aphelenchoides besseyi</i>) |
| <u>--</u> Hoja Blanca Virus | <u>--</u> Stem Rot (<i>Sclerotium oryzae</i>) |
| <u>--</u> Sheath Rot (<i>Sarocladium oryzae</i>) | |
| <u>--</u> Pythium Seedling Blight (<i>Pythium</i> sp.) | <u>--</u> Bacterial Blight (<i>Xanthomonas campestris</i> pv. <i>oryzae</i>) |
| <u>--</u> Sheath Spot (<i>Rhizoctonia oryzae</i>) | <u>7</u> Sheath Blight (<i>Rhizoctonia solani</i>) |
| <u>--</u> Other: _____ | |

12. INSECT RESISTANCE:

0 = Immune 1 = Resistant 3 = Moderately Resistant 5 = Intermediate 7 = Moderately Susceptible 9 = Susceptible

- | | |
|---------------------------|---|
| <u>--</u> Grasshopper | <u>9</u> Rice Stink Bug (<i>Oegalus pugnax</i>) |
| <u>--</u> Rice Leafhopper | <u>--</u> Swarm Caterpillar |
| <u>--</u> Rice Hispa | <u>9</u> Rice Water Weevil (<i>Lissorhoptrus oryzophilus</i>) |
| <u>--</u> Rice Midge | <u>--</u> Rice Stalk Borer (<i>Chilo plejadellus</i>) |
| <u>--</u> Least Skipper | <u>--</u> Sugarcane Borer (<i>Diatraea saccharalis</i>) |

13. OTHER DESCRIPTORS: If there are other characters that describe this variety, please indicate below:**REFERENCES**

- C. R. Adair *et al.* 1972. Rice in the United States: Varieties and Production. USDA Handbook No. 289 (Rev.), 124 pp.
- J. G. Atkins *et al.* 1967. An International Set of Rice Varieties for Differentiating Race of *Pyricularia Oryzae*. Phytopath. 57:297-301.
- IBPGR-IRRI Rice Advisory Committee. 1980. Descriptors for Rice *Oryza sativa* L. International Rice Research Institute. 21 pp.
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Table 1. Average main crop yields (lb/A) for Trenasse and selected check varieties across several trials at multiple locations in Louisiana (2002-2004).

YEAR	TEST	TRENASSE	COCODRIE	CHENIERE	CYPRESS
2002	URN - RRS	7673	7721	8908	8590
	CA - RRS	7571	8298	6829	6651
	CA - ACADIA	6125	6454	6818	6129
	CA - EAST CARROLL	9702	10251	9901	8577
	CA - LAKE ARTHUR	6730	6498	9440	7192
	2002 Average	7560	7844	8379	7428
2003	URN - RRS	7709	8432	7181	8332
	CA - RRS	8036	7953	7008	6837
	CA - ACADIA	7840	6539	6473	6092
	CA - EAST CARROLL	9483	9153	8993	7976
	CA - EVANGELINE	4410	6461	6282	5566
	CA - LAKE ARTHUR	5958	6694	6054	5637
	CA - MOREHOUSE	8898	8684	8174	7463
	CA - PINE ISLAND	5061	5627	5795	5259
	CA - RICHLAND	7700	7927	7886	6827
	2003 Average	7233	7497	7094	6665
2004	URN - RRS	7527	7504	7161	6714
	CA - RRS	6795	7615	7594	7163
	CA - ACADIA	7337	6361	5676	5635
	CA - EVANGELINE	7057	7145	7484	7019
	CA - LAKE ARTHUR	7049	6871	6855	6008
	CA - MOREHOUSE	7813	8536	8424	7640
	CA - PINE ISLAND	5088	5582	5592	5109
	2004 Average	6952	7088	6969	6470
Grand Mean		7217	7443	7358	6782

Table 2. Average ratoon crop yields (lb/A) for Trenasse and selected check varieties across several trials in Louisiana and Texas (2002-2004).

YEAR	TEST	TRENASSE	COCODRIE	CHENIERE	CYPRESS
2002	URN - RRS, LA	2167	1741	1273	1784
	URN - TX	1282	929	833	862
	CA - RRS	2069	3228	2452	2505
	CA - LAKE ARTHUR	624	748	1206	794
	2002 Average	1536	1662	1441	1486
2003	URN - RRS	3533	2595	1489	2611
	CA - RRS	2714	1933	1758	2544
	CA - LAKE ARTHUR	2843	2295	2419	2447
	2003 Average	3030	2274	1889	2534
2004	URN - RRS	2277	2018	1892	2187
	CA - RRS	2166	1581	1565	1735
	2004 Average	2222	1800	1729	1961
Grand Mean		2186	1896	1654	1941

Table 3. Whole rice yield (%) for Trenasse and selected check varieties across several trials at multiple locations in Louisiana (2002-2004).

YEAR	TEST	TRENASSE	COCODRIE	CHENIERE	CYPRESS
2002	URN - RRS	65.3	63.8	67.4	69.2
	CA - RRS	67.0	63.6	67.5	70.2
	CA - LAKE ARTHUR	59.1	60.9	63.6	65.8
	2002 Average	63.8	62.8	66.2	68.4
2003	URN - RRS	64.8	66.3	67.6	69.0
	CA - RRS	65.1	67.5	69.9	70.2
	CA - ACADIA	61.9	66.0	65.6	66.8
	CA - LAKE ARTHUR	56.2	63.9	61.7	63.8
	2003 Average	62.0	65.9	66.2	67.5
2004	URN - RRS	57.7	58.0	63.5	60.6
	CA - ACADIA	63.5	67.5	68.3	68.2
	CA - LAKE ARTHUR	67.6	67.9	69.4	67.3
	2004 Average	62.9	64.5	67.1	65.4
Grand Mean		62.8	64.5	66.5	67.1

Table 4. Total rice yield (%) for Trenasse and selected check varieties across several trials at multiple locations in Louisiana (2002-2004).

YEAR	TEST	TRENASSE	COCODRIE	CHENIERE	CYPRESS
2002	URN - RRS	70.4	68.6	73.8	71.9
	CA - RRS	71.1	68.5	72.2	73.3
	CA - LAKE ARTHUR	64.4	67.5	69.6	69.8
	2002 Average	68.6	68.2	71.9	71.7
2003	URN - RRS	71.1	72.2	73.4	72.1
	CA - RRS	70.4	72.6	75.1	74.6
	CA - ACADIA	66.9	71.2	71.2	70.8
	CA - LAKE ARTHUR	64.2	71.9	70.4	69.3
	2003 Average	68.2	72.0	72.5	71.7
2004	URN - RRS	66.4	67.8	71.4	66.6
	CA - ACADIA	70.7	72.5	72.5	72.1
	CA - LAKE ARTHUR	72.4	72.9	73.4	72.4
	2004 Average	69.8	71.1	72.4	70.4
Grand Mean		68.8	70.6	72.3	71.3

Table 5. Mean plant height (cm) for Trenasse and selected check varieties across several trials at multiple locations in Louisiana (2002-2004).

YEAR	TEST	TRENASSE	COCODRIE	CHENIERE	CYPRESS
2002	URN - RRS	89	84	86	89
	CA - RRS	89	86	81	89
	CA - ACADIA	89	94	89	97
	CA - LAKE ARTHUR	102	91	91	97
	2002 Average	92	89	87	93
2003	URN - RRS	109	102	102	109
	CA - RRS	109	97	99	99
	CA - ACADIA	99	89	91	89
	CA - EAST CARROLL	107	97	99	97
	CA - EVANGELINE	102	97	94	97
	CA - LAKE ARTHUR	107	104	102	102
	CA - MOREHOUSE	102	94	94	94
	CA - PINE ISLAND	91	86	89	89
	CA - RICHLAND	97	91	91	91
	2003 Average	103	95	96	96
2004	URN - RRS	109	94	97	109
	CA - RRS	107	97	99	104
	CA - ACADIA	102	97	91	99
	CA - EVANGELINE	112	99	102	102
	CA - LAKE ARTHUR	104	102	99	99
	CA - PINE ISLAND	97	97	91	94
	2004 Average	105	98	97	101
Grand Mean		101	95	94	97

Table 6. Mean number of days to 50% heading for Trenasse and selected check varieties across several trials at multiple locations in Louisiana (2002-2004).

YEAR	TEST	TRENASSE	COCODRIE	CHENIERE	CYPRESS
2002	URN - RRS	79	82	84	85
	CA - RRS	80	82	84	84
	CA - ACADIA	70	74	75	77
	CA - EAST CARROLL	76	82	83	84
	CA - LAKE ARTHUR	70	75	78	80
	2002 Average	75	79	81	82
2003	URN - RRS	67	72	73	73
	CA - RRS	66	70	73	73
	CA - ACADIA	67	71	73	75
	CA - EAST CARROLL	73	83	85	87
	CA - EVANGELINE	76	81	84	83
	CA - LAKE ARTHUR	69	78	80	81
	CA - MOREHOUSE	71	78	80	81
	CA - PINE ISLAND	64	70	73	73
	CA - RICHLAND	75	82	83	85
	2003 Average	70	76	78	79
2004	URN - RRS	82	88	90	90
	CA - RRS	81	89	91	92
	CA - ACADIA	83	89	90	91
	CA - EVANGELINE	79	86	87	87
	CA - LAKE ARTHUR	82	86	88	88
	CA - PINE ISLAND	72	78	82	82
	2004 Average	80	86	88	88
Grand Mean		74	80	82	83

Table 7. Seedling vigor of Trenasse and selected check varieties across several trials at multiple locations in Louisiana (2002-2004).

YEAR	TEST	TRENASSE	COCODRIE	CHENIERE	CYPRESS
2002	URN - RRS	5	5	6	4
	CA - RRS	5	4	5	5
	CA - LAKE ARTHUR	5	5	5	4
	2002 Average	5	5	5	4
2003	URN - RRS	4	4	4	4
	CA - RRS	5	4	5	3
	CA - ACADIA	5	5	5	4
	CA - LAKE ARTHUR	6	4	6	4
	2003 Average	5	4	5	4
2004	CA - LAKE ARTHUR	6	5	5	4
	CA - PINE ISLAND	5	5	4	4
	2004 Average	6	5	5	4
Grand Mean		5	5	5	4

Table 8. Reaction of Trenasse and selected varieties to Sheath Blight (*Rhizoctonia solani*) in field plots (2002-2004).

YEAR	TEST	TRENASSE	COCODRIE	CHENIERE	CYPRESS
2002	URN - ARKANSAS	6.8	6.9	6.5	6.5
2003	URN - RRS	7.0	7.8	n/a	n/a
2004	CA - RRS	6.8	7.0	6.8	6.8
	URN - TX	4.5	7.0	5.5	5.5
	Mean	6.3	7.2	6.3	6.3

Table 9. Reaction of Trenasse and selected varieties to Panicle Blight in field plots (2003-2004).

YEAR	TEST	TRENASSE	COCODRIE	CHENIERE	CYPRESS
2003	URN - RRS	3.3	4.0	4.0	3.7
2004	URN - RRS	7.7	7.0	7.0	6.7
	Mean	5.5	5.5	5.5	5.2

Table 10. Reaction of Trenasse and selected varieties to Leaf Blast (*Pyricularia grisea*) in field plots (2003-2004).

YEAR	TEST	TRENASSE	COCODRIE	CHENIERE	CYPRESS
2003	URN - RRS	6.0	5.0	6.0	5.0
2004	CA - RRS	4.5	2.3	5.5	4.5
	Mean	5.3	3.7	5.8	4.8

Table 11. Reaction of Trenasse and selected varieties to the physiological disorder straighthead (2002-2004).

YEAR	TEST	TRENASSE	COCODRIE	CHENIERE	CYPRESS
2002	RRS	1.8	5.0	1.0	1.3
2003	RRS	2.0	5.3	1.5	1.3
2004	RRS	3.7	5.3	2.7	3.0
	Mean	2.5	5.2	1.7	1.9

Table 12. Reaction of Trenasse and selected varieties to Narrow Brown Leaf Spot* (*Cercospora janseana*) in field plots (2004).

YEAR	TEST	TRENASSE	COCODRIE	CHENIERE	CYPRESS
2004	CA - RRS	2.0	3.5	3.8	4.0

* Using a scale of 0 = very resistant to 9 = very susceptible.

Table 13. Reaction of Trenasse and selected varieties to Leaf Smut* (*Entyloma oryzae*) in field plots (2004).

YEAR	TEST	TRENASSE	COCODRIE	CHENIERE	CYPRESS
2004	CA - RRS	3.0	1.5	3.5	3.3

* Using a scale of 0 = very resistant to 9 = very susceptible.

Table 14. Reaction of Trenasse and selected varieties to Brown Spot* (*Cochiobolus miyabeanus*) in field plots (2004).

YEAR	TEST	TRENASSE	COCODRIE	CHENIERE	CYPRESS
2004	CA - RRS	3.0	1.0	1.8	2.0

* Using a scale of 0 = very resistant to 9 = very susceptible.

Table 15. Rough, brown and milled grain dimensions and weight of Trenasse, Cocodrie, Cheniere and Cypress grown in Crowley, LA (2004).

Variety	Type	Length mm	Width mm	Thickness mm	Weight g/1000 ker	L/W Ratio
Trenasse	Rough	9.30	2.67	2.02	25.05	3.50
	Brown	7.19	2.32	1.73	20.65	3.11
	Milled	6.70	2.23	1.67	19.00	3.01
Cocodrie	Rough	9.33	2.52	1.94	25.6	3.70
	Brown	7.14	2.20	1.77	20.6	3.25
	Milled	7.10	2.17	1.74	20.2	3.27
Cheniere	Rough	9.40	2.60	1.90	24.2	3.60
	Brown	7.50	2.10	1.80	21.3	3.50
	Milled	6.90	2.00	1.60	17.7	3.40
Cypress	Rough	9.34	2.49	1.96	24.6	3.75
	Brown	7.08	2.19	1.78	20.2	3.23
	Milled	6.95	2.16	1.74	19.8	3.22

Table 16. Cereal Chemistry of Trenasse and selected check varieties tested by Beaumont USDA Quality Lab (2003).

Entry	Apparent Amylose %	Alkali Avg.	Min.	Max.	Cook Type
Trenasse	20.9	4.1	3	4	Long
Cocodrie	25.7	3.8	3	4	Extra High Amylose
Cheniere	25.6	4.0	4	4	Extra High Amylose
Cypress	21.3	3.7	2	4	Long

Summary Data of Trenasse (2002-2004)

Trait	Performance				Number of Tests	Reference
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	Trenasse	Cocodrie	Cheniere	Cypress		
Yield	7217	7443	7358	6782	21	Table 1
Ratoon	2186	1896	1654	1941	9	Table 2

Whole	62.8	64.5	66.5	67.1	10	Table 3
Total	68.8	70.6	72.3	71.3	10	Table 4

Weight-Rough	25.05	25.6	24.2	24.6		Table 15
Weight-Brown	20.65	20.6	21.3	20.2		Table 15
Weight-Milled	19.00	20.2	17.7	19.8		Table 15

Length-Rough	9.30	9.33	9.40	9.34		Table 15
Width-Rough	2.67	2.52	2.60	2.49		Table 15
L/W Ratio-Rough	3.50	3.70	3.60	3.75		Table 15

Length-Brown	7.19	7.14	7.50	7.08		Table 15
Width-Brown	2.32	2.20	2.10	2.19		Table 15
L/W Ratio-Brown	3.11	3.25	3.50	3.23		Table 15

Length-Milled	6.70	7.10	6.90	6.95		Table 15
Width-Milled	2.23	2.17	2.00	2.16		Table 15
L/W Ratio-Milled	3.01	3.27	3.40	3.22		Table 15

Vigor	5	5	5	4	9	Table 7
Height (cm)	101	95	94	97	19	Table 5
Days to 50%	74	80	82	83	20	Table 6

Amylose	20.9	25.7	25.6	21.3		Table 16
Alkali Average	4.1	3.8	4.0	3.7		Table 16

Blast (LB/RNB)	5.3	3.7	5.8	4.8	2	Table 10
Sheath Blight	6.3	7.2	6.3	6.3	4	Table 8
Straighthead	2.5	5.2	1.7	1.9	3	Table 11
Panicle Blight	5.5	5.5	5.5	5.2	2	Table 9

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE**EXHIBIT E**
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) Louisiana State University Agricultural Center	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER LA0202008	3. VARIETY NAME Trenasse
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) Rice Research Station 1373 Caffey Road Rayne, LA 70578	5. TELEPHONE (Include area code) (337) 788-7531	6. FAX (Include area code) (337) 788-7553
7. PVPO NUMBER 2005 00350		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. ☒ YES ☐ NO9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. ☒ YES ☐ NO10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES ☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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